



**Product Data Sheet &  
General Processing Conditions**

**RTP 205 TFE 15 HS  
Nylon 6/6 (PA)  
Glass Fiber  
PTFE Lubricated  
Heat Stabilized**

**PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS**

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Primary Additive	30 %	30 %	
Specific Gravity	1.49	1.49	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0010 - 0.0050 in/in	0.10 - 0.50 %	D 955
<b>MECHANICAL</b>			
Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.7 ft-lbs/in	91 J/m	D 256
unnotched 1/8 in (3.2 mm) section	16.5 ft-lbs/in	881 J/m	D 4812
Tensile Strength	21250 psi	147 MPa	D 638
Tensile Elongation	2.5 - 4.0 %	2.5 - 4.0 %	D 638
Tensile Modulus	1.35 x 10 <sup>6</sup> psi	9308 MPa	D 638
Flexural Strength	32500 psi	224 MPa	D 790
Flexural Modulus	1.30 x 10 <sup>6</sup> psi	8964 MPa	D 790
<b>ELECTRICAL</b>			
Volume Resistivity	> 1E13 ohm.cm	> 1E13 ohm.cm	D 257
<b>THERMAL</b>			
Deflection Temperature @ 264 psi (1820 kPa)	460 °F	238 °C	D 648
Ignition Resistance* Flammability**	HB @ 1/16 in	HB @ 1.5 mm	D 635
<b>PROPERTY NOTES</b>			

Data herein is typical and not to be construed as specifications.

Unless otherwise specified, all data listed is for natural or black colored materials. Pigments can affect properties.

\* This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

\*\* Values per RTP Company testing.

**GENERAL PROCESSING FOR INJECTION MOLDING**

	<b>English</b>	<b>SI Metric</b>
Injection Pressure	10000 - 18000 psi	69 - 124 MPa
Melt Temperature	530 - 570 °F	277 - 299 °C
Mold Temperature	150 - 225 °F	66 - 107 °C
Drying	4 hrs @ 175 °F	4 hrs @ 79 °C
Moisture Content	0.20 %	0.20 %
Dew Point	0 °F	-18 °C

**PROCESSING NOTES**

Desiccant Type Dryer Required.